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Camera, process for reconstructing an image information,  
and process for calibrating an image information

### Summary

The within invention concerns a camera for recording an image information. According to the invention, a reproduction faithful to the original of the color impression and/or the brightness of the picture taken is ensured by the fact that the camera has one or more media for creating a light signal with known spectral intensity distribution and/or chromaticity coordinates and/or brightness that can be detected by a recording medium positioned or capable of being positioned in the camera. The within invention also concerns a process for reconstructing an image information recorded on a recording medium, in which the image reconstruction is undertaken in such manner that the spectral intensity distribution and/or the chromaticity coordinates and/or the brightness of a light signal information recorded on a recording medium and reconstructed accords with that of the light signal

generated by light-signal-creating media or with that of the light signal complementary thereto, or the divergence between the reconstructed and the created light signal lies within a tolerance range or is minimized.

The within invention also concerns a process for calibrating an image information recorded on a recording medium, in which the divergence of the reconstructed light signal is recorded parametrically to the light signal generated by light-signal-creating media or the light signal complementary to this light signal, and these parameters are processed as calibration parameters for further image reconstruction and/or image processing.

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